

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1-30. (Canceled)

31. (Currently Amended) An encoding system for encoding input video data, comprising:

counting means for counting fields in the input video data having a particular frame frequency;

converting means for converting the input video data having said particular frame frequency into video data with a second frame frequency;

encoding means for encoding the converted video data to generate an elementary stream and describing, in said elementary stream, picture order information about a picture order of said elementary stream; said encoding means generating said picture order information based on the fields counted in said counting means; said picture order information including a presentation time stamp count and a decoding time stamp count;-and

a packetizer for packetizing said elementary stream and generating time stamp information about said elementary stream based on said picture order information described in said elementary stream;

extracting means for extracting ancillary data from vertical blanking
interval the input data and line number of the ancillary data; and
supply means for supplying the extracted ancillary data to a controller
thereby supplying unique information pertaining to V-phase and H-phase positioning.

32. (Previously Presented) The encoding system according to claim 31, wherein said encoding means describes said picture order information in a picture layer of said elementary stream.

33. (Previously Presented) The encoding system according to claim 31, wherein said packetizer extracts said picture order information from said elementary stream by parsing the syntax of said elementary stream.

34. (Previously Presented) The encoding system according to claim 31, wherein said time stamp information comprises presentation time stamps and decoding time stamps.

35. (Previously Presented) The encoding system according to claim 31, wherein said packetizer adds said time stamp information to a header of said packetized elementary stream.

36. (Previously Presented) The encoding system according to claim 31, wherein said particular frame frequency is a 30-Hz frame frequency generated by a 3:2 pull-down process performed on source video data with a second frame frequency of 24-Hz.

37. (Currently Amended) A method of encoding input video data, comprising the steps of:

- counting fields in the input video data having a particular frame frequency;
- converting the input video data having said particular frame frequency into video data with a second frame frequency;
- encoding the converted video data to generate an elementary stream;
- describing, in said elementary stream, picture order information about a picture order of said elementary stream;
- generating said picture order information based on the counted fields; said picture order information including a presentation time stamp count and a decoding time stamp count; ~~and~~
- packetizing said elementary stream and generating time stamp information about said elementary stream based on said picture order information described in said elementary stream;
- extracting ancillary data from vertical blanking interval the input data and line number of the ancillary data; and
- supplying the extracted ancillary data to a controller thereby supplying unique information pertaining to V-phase and H-phase positioning.